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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,256	01/26/2004	Srikanth Varanasi	1-15610	9581
1678	7590 06/20/2007	EXAMINER		
	& MELHORN ATE, EIGHT FLOOR		CHEN, BRET P .	
TOLEDO, OH 43604			ART UNIT	PAPER NUMBER
			1762	
			MAIL DATE	DELIVERY MODE
			06/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/765,256	VARANASI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		B. Chen	1762			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPORTED IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. I period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the main part of the main part	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tin od will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•				
2a)□	Responsive to communication(s) filed on 30 This action is FINAL . 2b) This action is FINAL . 2b) This action is application is in condition for allow closed in accordance with the practice under the pr	his action is non-final. vance except for formal matters, pro				
Dispositi	on of Claims	·				
5)□ 6)⊠ 7)□	Claim(s) 1-14,16-20 and 27-29 is/are pendir 4a) Of the above claim(s) is/are withd Claim(s) is/are allowed. Claim(s) 1-14,16-20 and 27-29 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers						
10)	The specification is objected to by the Exami The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corn The oath or declaration is objected to by the	ccepted or b) objected to by the lessenge of the lessenge of the drawing(s) be held in abeyance. See the drawing(s) is objection is required if the drawing(s) is objection.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119 ·					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment						
2) D Notice 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Claims 1-14, 16-20, 27-29 are pending in this application, which is an RCE of Serial Number 10/765256. The preliminary amendment dated 4/30/07 amending claims 1, 16; canceling claim 15; and newly adding claim 29 has been entered.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/30/07 has been entered.

Claim Objections

Claims 6, 16-20, 27 are objected to because of the following informalities listed below.

Appropriate correction is required.

In claim 6, the term "the iron oxide layer" lacks antecedent basis. The examiner assumes that said term refers to the iron oxide coating recited in independent claim 1. Appropriate amendments are requested.

In claim 16 line 6 (which claims 17-20, 27 depend from), the term "the iron oxide coating" lacks antecedent basis. The examiner assumes that said term refers to the iron oxide layer in line 3. Appropriate amendments are requested.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-14, 16-20, 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Halaby et al. (3,892,888) in view of Robinson et al. (2002/0135099) or vice versa.

Halaby discloses a method of making a magnetite film or gamma ferric oxide film magnetic recording and storage device comprising the step of depositing a film of elemental iron, alpha ferric oxide, or magnetite on an inorganic and non-magnetic substrate by chemical vapor deposition (col.1 lines 36-49). The substrate can be in the form of a disk, tape, rod, drum or wire and can be aluminum, glass, glass-ceramic or ceramic that can withstand without damage the high temperatures encountered in the method of this invention (col.2 lines 15-23) and can be heated to 300°C (col.2 lines 52-54). The precursor can be ferrocene and can be transported by the use of an inert or reducing carrier gas (col.2 lines 54-69) and the carrier gas can be oxygen (col.6 lines 1-18). It should be noted that the final film can be alpha ferric oxide (col.5 lines 63-

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65). Nitrogen can be used as an inert gas (col.4 lines 1-25). However, the reference remains silent on directing forming a gaseous mixture.

It is noted that the reference clearly teaches of utilizing ferrocene and an oxidant to react to form an iron oxide film. One skilled in the art knows that forming a mixture prior to reacting ensures saturation amongst the desired materials. It would have been obvious to utilize a mixture of ferrocene and an oxidant to deposit an iron oxide film with the expectation of obtaining similar results.

In addition, the reference fails to teach a float glass process. Robinson discloses a method of using float glass having a SnO.sub.2 enriched surface, wherein the method includes the steps of providing an ionic release agent externally to the tin oxide surface (par 9). Specifically, the reference teaches the conventionality of making a float glass wherein the molten glass is allowed to float on a liquid pool of tin which results in one side of the glass having a tin enriched surface as opposed to the air-side of that same piece of glass (par 54). A metal oxide coating such as Fe₂O₃ can be formed (par 55). In one embodiment, two or more layers are contemplated (par 55). It would have been obvious to incorporate the float glass substrate of Robinson in Halaby's process with the expectation of obtaining similar results.

In addition, Robinson's process is silent on specific precursors for forming Fe₂O₃ layers. Halaby discloses the conventionality of using ferrocene and an oxidant. It would have been obvious to incorporate Halaby's precursors in Robinson's process with the expectation of success.

The limitations of claims 2-14, 16-20, 27-29 have been addressed above.

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Response to Arguments

Applicant's arguments with respect to the claims above have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bc 6/18/07

BRET CHEN
PRIMARY EXAMINER